



SEQUENCE LISTING

GENERAL INFORMATION:

- (i) APPLICANT: Olsen, et al.
- (ii) TITLE OF INVENTION: Vascular Endothelial Growth Factor 3
- (iii) NUMBER OF SEQUENCES: 6
- (iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN
(B) STREET: 6 BECKER FARM ROAD
(C) CITY: ROSELAND
(D) STATE: NEW JERSEY
(E) COUNTRY: USA
(F) ZIP: 07068
- (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: 3.5 INCH DISKETTE
(B) COMPUTER: IBM PS/2
(C) OPERATING SYSTEM: MS-DOS
(D) SOFTWARE: WORD PERFECT 5.1
- (vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: 08/469,641
(B) FILING DATE: June 6, 1995
(C) CLASSIFICATION:
- (vii) ATTORNEY/AGENT INFORMATION:
(A) NAME: MULLINS, J.G.
(B) REGISTRATION NUMBER: 33,073
(C) REFERENCE/DOCKET NUMBER: 325800-463 (PF207)
- (viii) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 201-994-1700
(B) TELEFAX: 201-994-1744

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 666 BASE PAIRS
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR
- (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATGAGAAGGT	GTAGAATAAG	TGGGAGGCCC	CCGGCGCCCC	CCGGTGTCCC	CGCC	CAGGCC	60
CCTGTCTCCC	AGCCTGATGC	CCCTGGCCAC	CAGAGGAAAG	TGGTGTTCATG	GATAGATGTG		120
TATACTCGCG	CTACCTGCCA	GCCCCGGGAG	GTGGTGGTGC	CCTTGACTGT	GGAGCTCATG		180
GGCACCGTGG	CCAAACAGCT	GGTGCCACG	TGCGTGACTG	TGCAGCGCTG	TGGTGGCTGC		240
TGCCCTGACG	ATGGCCTGGA	GTGTGTGCCC	ACTGGGCAGC	ACCAAGTCCG	GATGCAGATC		300
CTCATGATCC	GGTACCCGAG	CAGTCAGCTG	GGGGAGATGT	CCCTGGAAGA	ACACAGCCAG		360
TGTGAATGCA	GACCTAAAAA	AAAGGACAGT	GCTGTGAAGC	CAGACAGGGC	TGCTACTCCC		420
CACCACCGTC	CCCAGCCCCG	TTCTGTTCCG	GGCTGGGACT	CTGCCCCCGG	AGCACCTCC		480
CCAGCTGACA	TCACCCAATC	CCACTCCAGC	CCCAGGCCCC	TCTGCCCCACG	CTGCACCCAG		540
CACCACCACT	GCCCTGACCC	CCGGACCTGC	CGCTGCCGCT	GTCGACGCG	CAGCTTCCTC		600
CGTTGTCAAG	GGCGGGGCTT	AGAGCTCAAC	CCAGACACCT	GCAGGTGCCG	GAAGCTGCGA		660
AGGTGA							666

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS

(A) LENGTH: 221 AMINO ACIDS

(B) TYPE: AMINO ACID

(C) STRANDEDNESS:

(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: PROTEIN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met	Arg	Arg	Cys	Arg	Ile	Ser	Gly	Arg	Pro	Pro	Ala	Pro	Pro	Gly
				5					10					15
Val	Pro	Ala	Gln	Ala	Pro	Val	Ser	Gln	Pro	Asp	Ala	Pro	Gly	His
				20					25					30
Gln	Arg	Lys	Val	Val	Ser	Trp	Ile	Asp	Val	Tyr	Thr	Arg	Ala	Thr
				35					40					45
Cys	Gln	Pro	Arg	Glu	Val	Val	Val	Pro	Leu	Thr	Val	Glu	Leu	Met
				50					55					60
Gly	Thr	Val	Ala	Lys	Gln	Leu	Val	Pro	Ser	Cys	Val	Thr	Val	Gln
				65					70					75
Arg	Cys	Gly	Gly	Cys	Cys	Pro	Asp	Asp	Gly	Leu	Glu	Cys	Val	Pro
				80					85					90
Thr	Gly	Gln	His	Gln	Val	Arg	Met	Gln	Ile	Leu	Met	Ile	Arg	Tyr
				95					100					105
Pro	Ser	Ser	Gln	Leu	Gly	Glu	Met	Ser	Leu	Glu	Glu	His	Ser	Gln
				110					115					120
Cys	Glu	Cys	Arg	Pro	Lys	Lys	Lys	Asp	Ser	Ala	Val	Lys	Pro	Asp
				125					130					135
Arg	Ala	Ala	Thr	Pro	His	His	Arg	Pro	Gln	Pro	Arg	Ser	Val	Pro
				140					145					150
Gly	Trp	Asp	Ser	Ala	Pro	Gly	Ala	Pro	Ser	Pro	Ala	Asp	Ile	Thr
				155					160					165
Gln	Ser	His	Ser	Ser	Pro	Arg	Pro	Leu	Cys	Pro	Arg	Cys	Thr	Gln
				170					175					180
His	His	Gln	Cys	Pro	Asp	Pro	Arg	Thr	Cys	Arg	Cys	Arg	Cys	Arg
				185					190					195

Arg	Arg	Ser	Phe	Leu	Arg	Cys	Gln	Gly	Arg	Gly	Leu	Glu	Leu	Asn
				200					205					210
Pro	Asp	Thr	Cys	Arg	Cys	Arg	Lys	Leu	Arg	Arg				
				215					220					

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS
 - (A) LENGTH: 29 BASE PAIRS
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: Oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GCATGATCC CAGCCTGATG CCCCTGGCC

29

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS
 - (A) LENGTH: 30 BASE PAIRS
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: Oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GCATTCTAGA CCCTGCTGAG TCTGAAAAGC

30

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS
 - (A) LENGTH: 29 BASE PAIRS
 - (B) TYPE: NUCLEIC ACID
 - (C) STRANDEDNESS: SINGLE
 - (D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: Oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GACTGCATGC ACCAGAGGAA AGTGGTGTC

29

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 29 BASE PAIRS
(B) TYPE: NUCLEIC ACID
(C) STRANDEDNESS: SINGLE
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: Oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GACTAGATCT CCTTCGCAGC TTCCGGCAC

29

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS
(A) LENGTH: AMINO ACIDS
(B) TYPE: AMINO ACID
(C) STRANDEDNESS:
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: PROTEIN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Xaa Cys Val Xaa Xaa Xaa Arg Cys Xaa Gly Cys Cys Asn
5 10

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS
(A) LENGTH: 231 AMINO ACIDS
(B) TYPE: AMINO ACID
(C) STRANDEDNESS:
(D) TOPOLOGY: LINEAR

(ii) MOLECULE TYPE: PROTEIN

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu
5 10 15
Leu Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala
20 25 30
Glu Gly Gly Gly Gln Asn His Glu Val Val Lys Phe Met Asp Val
35 40 45
Tyr Gln Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile
50 55 60
Phe Gln Glu Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser
65 70 75

Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly
 80 85 90
 Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
 95 100 105
 Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser
 110 115 120
 Phe Leu Gln His Asn Lys Cys Glu Cys Arg Pro Lys Lys Asp Arg
 125 130 135
 Ala Arg Gln Glu Lys Lys Ser Val Arg Gly Lys Gly Lys Gly Gln
 140 145 150
 Lys Arg Lys Arg Lys Lys Ser Arg Tyr Lys Ser Trp Ser Val Tyr
 155 160 165
 Val Gly Ala Arg Cys Cys Leu Met Pro Trp Ser Leu Pro Gly Pro
 170 175 180
 His Pro Cys Gly Pro Cys Ser Glu Arg Arg Lys His Leu Phe Val
 185 190 195
 Gln Asp Pro Gln Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser
 200 205 210
 Arg Cys Lys Ala Arg Gln Leu Glu Leu Asn Glu Arg Thr Cys Arg
 215 220 225
 Cys Asp Lys Pro Arg Arg
 230